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LITHIUM SALT OF POLYACETYLENE AS RADIATION SENSITIVE FILAMENTS AND PREPARATION AND USE THEREOF

ABSTRACT

This invention relates to photochromic filaments composed of the lithium salt of a conjugated, polymerizable polyacetylene having a carboxylic acid or carboxylate terminal group wherein the length to width ratio of said filaments is between about 5000:1 and about 5:1 and the average length of the filament is up to about 5cm. The invention also pertains to the use of said salts in maximized radiation sensitivity for imaging, radiation dose measurement or mapping and detection of radiation fields.